

B.S. Marine Engineering (TMI, Induri / RLINS, Madurai)

Type of Input: 10+2 from Central / State Board or its equivalent with Physics, Chemistry and Mathematics along with adequate proficiency in English. Short-listed candidates will be required to take an entrance examination and interview at their own expense at Induri / Madurai for getting admission

Duration Normally Eight Semesters

Special Feature: This is specially designed 4-year integrated programme with classes and laboratory work conducted entirely at Tolani Maritime Institute (TMI), Induri, Pune – 410 517 and at R.L. Institute of Nautical Sciences (RLINS), Madurai – 625 022.

Year	First Semester			Second Semester		
			U			U
I	ME** ZC111	English Language Skills	2	ME** ZC112	Thermodynamics	3
	ME** ZC121	Engineering Mathematics I	3	ME** ZC122	Engineering Mathematics II	3
	ME** ZC131	Applied Mechanics I	3	ME** ZC132	Applied Mechanics II	3
	ME** ZC141	Geometrical Drawing	2	ME** ZC142	Engineering Drawing	2
	ME** ZC151	Workshop Technology	4	ME** ZC152	Workshop Practice I	2
	ME** ZC161	Applied Electricity	4	ME** ZC162	Electrical Measurements	2
	ME** ZC171	Maritime Geography	2	ME** ZC172	Strength of Materials	3
	ME** ZC181	Introduction to Computers	3	ME** ZC182	Computer Applications	3
			ME** ZC192	Social Studies	2	
		Total	23	Total	23	
II	ME** ZC213	Electronics I	2	ME** ZC211	Probability & Statistics	3
	ME** ZC223	Engineering Materials	3	ME** ZC214	Electronics II	2
	ME** ZC233	Marine Machinery Drawing	3	ME** ZC222	Marine Boilers & Steam Engineering	3
	ME** ZC261	Hydraulics	3	ME** ZC224	Internal Combustion Engines	3
	ME** ZC271	Applied Thermodynamics	3	ME** ZC231	Fuels & Lubricants	2
	ME** ZC281	Workshop Practice II	2	ME** ZC242	Seamanship & Survival at Sea	2
	ME** ZC282	Electrical Machines	3	ME** ZC272	Mechanics of Materials	3
	ME** ZC291	Ship Structure & Construction	3	ME** ZC361	Alternators & Motors	2
			ME** ZC372	Ship Fire Prevention & Control	3	
		Total	22	Total	23	
III	ME** ZC311	Marine Auxiliary Machines I	2	ME** ZC312	Marine Auxiliary Machines II	2
	ME** ZC313	Naval Architecture	3	ME** ZC314	Advanced Naval Architecture	3
	ME** ZC323	Marine Electro Technology	2	ME** ZC324	Advanced Marine Electro Technology	2
	ME** ZC333	Machine Design	3	ME** ZC334	Marine Machinery Design	3
	ME** ZC371	Mechanics of Machines	3	ME** ZC342	Marine Environmental Protection	2
	ME** ZC381	Pumps of Pumping Systems	2	ME** ZC352	Technical Report Writing	3
	ME** ZC382	Refrigeration & Air Conditioning	3	ME** ZC362	Dynamics of Vibrations	2
	ME** ZC391	Marine Internal Combustion Engines	3	ME** ZC431	Marine Control Engineering	4
		Total	21	Total	21	
IV	ME** ZC351	Principles of Management	3	ME** ZC412	Internship	20
	ME** ZC421	Ship Operation & Management	3			
	ME** ZC441	International Conventions & IMO	3			
	ME** ZC471	Operations Research	3			
	ME** ZC492	Power Plant Operation & Watchkeeping Elective Elective	3			
		Total	-	Total	20	

Note 1: This is the currently operative pattern as approved by the Senate-appointed committee, subject to change if the situation warrants.

Note 2: For the course numbers in the above chart, the symbol ** can be substituted by **TI** for TMI and **RI** for RLINS.

Pool of other Courses*		
Course No.	Course Title	U
ME** ZC413	Oceanography	3
ME** ZC423	Emergency Management & Damage Control	3
ME** ZC433	Quality Management	3
ME** ZC443	CAD/CAM	3
ME** ZC453	Project	3
ME** ZC463	Maritime Law	3
ME** ZC473	Switchgear & Protection	3
ME** ZC481	Marine Cost Engineering	2
ME** ZC491	Organizational Behaviour	3

* Any course from this pool may be used to substitute a course from the Semesterwise pattern, if the situation warrants.